

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-4 (Canceled).

Claim 5 (Previously Presented): A power supply apparatus comprising:
a field effect transistor that is disposed in the path of a main current that is a subject of
power control, and includes:

a substrate;

a gallium-nitride buffer layer formed on the substrate;

a gallium-nitride layer formed on the gallium-nitride buffer layer;

an n-type aluminum-gallium-nitride layer formed on the gallium-nitride layer;

and

a control unit which conducts switching control on conduction of the main current
flowing through said field effect transistor.

Claim 6 (Previously Presented): The power supply apparatus according to claim 5,
wherein said field effect transistor is provided in plurality, and said field effect transistors are
connected in parallel.

Claim 7 (Previously Presented): The power supply apparatus according to claim 6,
wherein said field effect transistors are arranged so as to be spatially adjacent to each other.

Claim 8 (Canceled).

Claim 9 (Currently Amended): A power supply circuit having a transformer, and which conducts on/off control on voltage applied to a primary winding of said transformer, and thereby supplies a stabilized power supply voltage to a secondary winding side of said transformer, further comprising:

a GaN-FET comprising:

a substrate;

a gallium-nitride buffer layer formed on the substrate;

a gallium-nitride layer formed on the gallium-nitride buffer layer;

an n-type aluminum-gallium-nitride layer formed on the gallium-nitride layer;

and

the GaN-FET connected to the primary winding of said transformer and on/off-controlled by a gate signal.

Claim 10 (Canceled).

Claim 11 (Previously Presented): The power supply apparatus according to claim 5, wherein said power supply apparatus is installed in an automobile.

Claim 12 (Previously Presented): The power supply apparatus according to claim 5, wherein said power supply apparatus is installed in an electric vehicle.

Claim 13 (Previously Presented): The power supply apparatus according to claim 5, wherein said power supply apparatus is installed in a consumer appliance.

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the Amendment filed December 22, 2003

Claim 14 (Previously Presented): The power supply apparatus according to claim 5,
wherein said power supply apparatus is installed in an industrial device.